Supplementary Information

Table S1: Species-specific bark thickness regression equations

Species	Equations	r.2
Carya cordiformis	ln[B] = -1.56 + 0.416*ln[DBH]	0.226
Carya glabra	ln[B] = -0.393 + 0.268*ln[DBH]	0.040
Carya ovalis	ln[B] = -2.18 + 0.651*ln[DBH]	0.389
Carya tomentosa	$\ln[B] = -0.477 + 0.301 \cdot \ln[DBH]$	0.297
Fagus grandifolia	$\ln[B] = 1 * \ln[DBH]$	NA
Fraxinus americana	ln[B] = 0.418 + 0.268*ln[DBH]	0.256
Juglans nigra	$\ln[B] = 0.346 + 0.279 \ln[DBH]$	0.246
Liriodendron tulipifera	$\ln[B] = -1.14 + 0.463 * \ln[DBH]$	0.545
Quercus alba	$\ln[B] = -2.09 + 0.637 \ln[DBH]$	0.603
Quercus prinus	$\ln[B] = -1.31 + 0.528 \ln[DBH]$	0.577
Quercus rubra	ln[B] = -0.593 + 0.292*ln[DBH]	0.087

Table S2: Species-specific height regression equations

Species	Equations	r.2
Carya cordiformis	$\ln[H] = 0.391 + 0.805 * \ln[DBH]$	0.899
Carya glabra	$\ln[H] = 0.654 + 0.728 \ln[DBH]$	0.890
Carya ovalis	$\ln[H] = 0.939 + 0.641 \ln[DBH]$	0.922
Carya tomentosa	$\ln[H] = 0.851 + 0.682 \cdot \ln[DBH]$	0.890
Fagus grandifolia	$\ln[H] = 0.574 + 0.713 * \ln[DBH]$	0.887
Liriodendron tulipifera	$\ln[H] = 1.21 + 0.559 * \ln[DBH]$	0.760
Quercus alba	$\ln[H] = 2.07 + 0.318 \cdot \ln[DBH]$	0.523
Quercus prinus	$\ln[H] = 0.594 + 0.713 * \ln[DBH]$	0.799
Quercus rubra	$\ln[H] = 1.42 + 0.473 \ln[DBH]$	0.832
all	$\ln[H] = 0.946 + 0.621 \ln[DBH]$	0.868

Table S3: Palmer drought severity index (PDSI) by month for focal droughts and other years referenced in the manuscript

month	PDSI	rank
May	-2.98	2
June	-3.40	2
July	-4.08	2
August	-4.82	1
May	-2.96	3
June	-3.28	3
July	-3.61	3
August	-3.68	3
May	-3.63	1
$\overline{\mathrm{June}}$	-4.21	1
July	-4.53	1
August	-4.64	2
May	-1.08	20
June	-1.97	11
July	-2.46	8
August	-2.98	5
May	-1.79	10
$\overline{\mathrm{June}}$	-2.10	10
July	-2.17	10
August	-3.06	4
May	-1.37	16
June	-1.59	16
July	-2.40	9
August	-2.55	11
	May June July August May June July August	May -2.98 June -3.40 July -4.08 August -4.82 May -2.96 June -3.28 July -3.61 August -3.68 May -3.63 June -4.21 July -4.53 August -4.64 May -1.08 June -1.97 July -2.46 August -2.98 May -1.79 June -2.10 July -2.17 August -3.06 May -1.37 June -1.59 July -2.40

Table S4. Correlation of species' traits with tree height across all individuals in the ForestGEO plot

variable	model	coefficient	p-value
WD	$WD\sim ln[H]$	-0.16	0
LMA	LMA~ln[H]	7.86	0
ring porosity	ring porosity~ln[H]	0.34	0
PLA	PLA~ln[H]	1.37	0
TLP	$PLA\sim ln[H]$	0.13	0

 $WI \ and \ location \ of \ cored \ trees] (tables_figureS2_location_cored_trees.png) \{ width = 500 px \}$

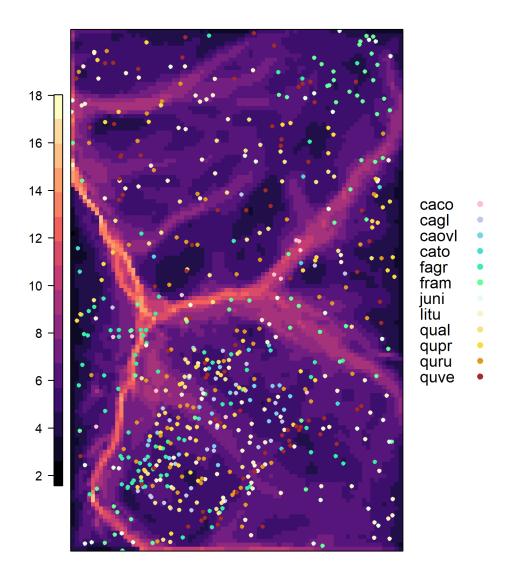


Figure S1: Map of ForestGEO plot showing TWI and location of cored trees

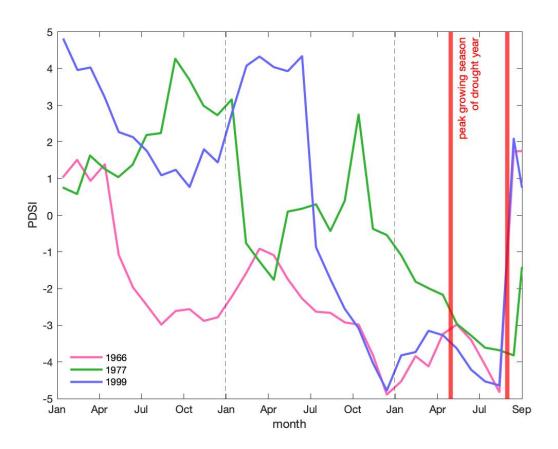


Figure S2: Time series of Palmer Drought Severity Index (PDSI) for the 2.5 years prior to each focal drought

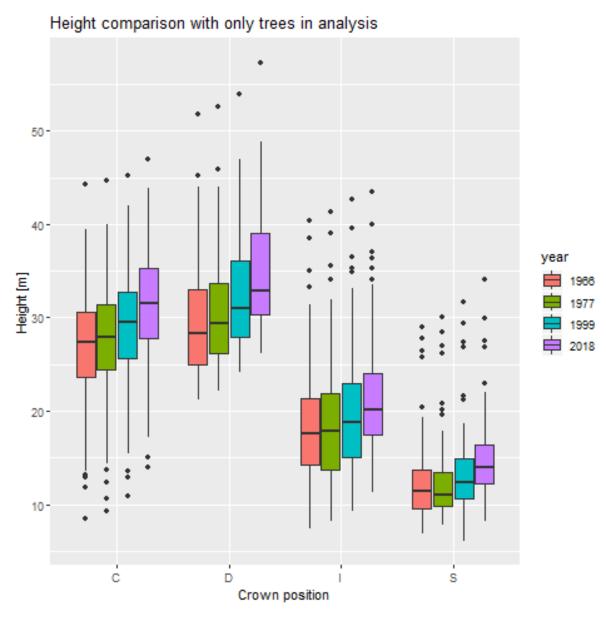


Figure S3: Changes in height by canopy position